

09/932,732

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:38:02 ON 06 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 5 MAY 2004 HIGHEST RN 680179-46-8
DICTIONARY FILE UPDATES: 5 MAY 2004 HIGHEST RN 680179-46-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

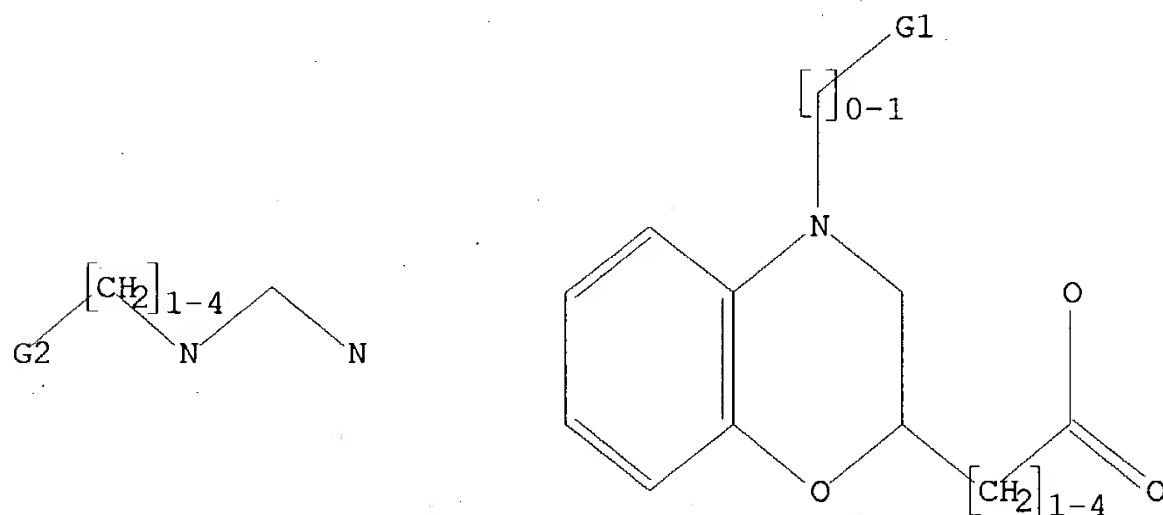
Uploading C:\Program Files\Stnexp\Queries\924732.str

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



G1 C, H, Cy

G2 C, O, S, N

Structure attributes must be viewed using STN Express query preparation.

=> S L1 SSS FULL

FULL SEARCH INITIATED 16:39:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 31 TO ITERATE

09/932,732

100.0% PROCESSED 31 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L2 0 SEA SSS FUL L1

=>

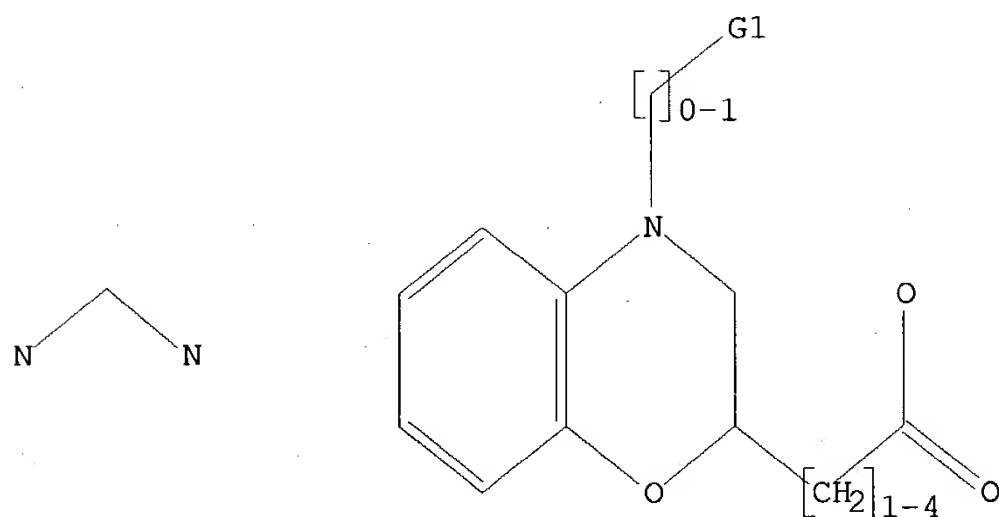
Uploading C:\Program Files\Stnexp\Queries\924732.str

L3 STRUCTURE UPLOADED

=> D L3

L3 HAS NO ANSWERS

L3 STR



G1 C,H,Cy

G2 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> S L3 SSS FULL

FULL SEARCH INITIATED 16:41:05 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 34 TO ITERATE

100.0% PROCESSED 34 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L4 0 SEA SSS FUL L3

=>

Uploading C:\Program Files\Stnexp\Queries\924732.str

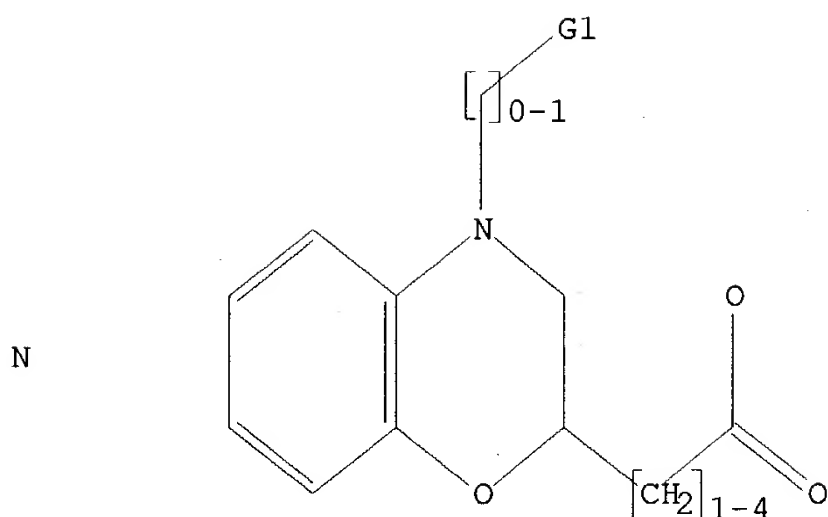
L5 STRUCTURE UPLOADED

=> D L5

L5 HAS NO ANSWERS

L5 STR

09/932,732



G1 C, H, Cy

G2 C, O, S, N

Structure attributes must be viewed using STN Express query preparation.

=> S L5 SSS FULL

FULL SEARCH INITIATED 16:42:30 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1378 TO ITERATE

100.0% PROCESSED 1378 ITERATIONS

189 ANSWERS

SEARCH TIME: 00.00.01

L6 189 SEA SSS FUL L5

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

468.36

468.57

FILE 'CAPLUS' ENTERED AT 16:42:36 ON 06 MAY 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 6 May 2004 VOL 140 ISS 19

FILE LAST UPDATED: 5 May 2004 (20040505/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L6

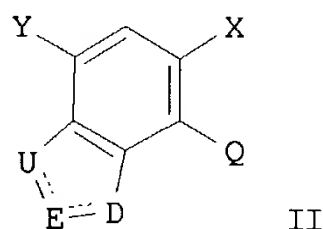
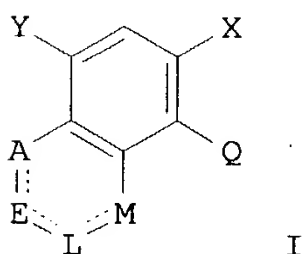
09/932,732

L7 15 L6

=> D L7 1-15 IBIB ABS HITSTR

L7 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:429093 CAPLUS
DOCUMENT NUMBER: 139:6880
TITLE: Preparation of benzoxazines, benzoxazoles, and related compounds as herbicides.
INVENTOR(S): Tsukamoto, Masamitsu; Gupta, Sandeep; Wu, Shao-Yong; Ying, Bai-Ping; Pulman, David A.
PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
SOURCE: U.S., 28 pp., Cont.-in-part of U.S. Ser. No. 149,296, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6573218	B1	20030603	US 2001-786816	20010705
WO 2000013508	A1	20000316	WO 1999-US18836	19990903
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2004029734	A1	20040212	US 2002-301799	20021122
PRIORITY APPLN. INFO.:			US 1998-149296	B2 19980909
			WO 1999-US18836	W 19990903
			US 2001-786816	A3 20010705
OTHER SOURCE(S):		MARPAT 139:6880		
GI				



AB Title compds. [I, II; X, Y = H, halo, cyano, nitro, alkyl, alkoxy, haloalkyl, haloalkoxy; A = O, N, NR1, CR3, CR3R4, SOn, CO, CS, CNR1; D = N, NR2; M = CR5, CR5R6, N, NR2, SOn, CO, CS, CNR2; When A = O, M = N, NR2, SOn, CO, CS, CNR2; E, L = CR7, CR8, CR7R8, O, N, NR7, SOn, CO, CS, CNR7, CNR7R8; U = CR9, O, N, NR2, S(O)n, CO, CS, CNR2; when U = CR9, E = N; R1, R2 = H, (substituted) alkyl, alkenyl, alkynyl, alkylcarbonyl, cycloalkylcarbonyl, haloalkylcarbonyl, alkoxy carbonyl, arylcarbonyl

heteroarylcarbonyl; Q = specified azolyl, azinyl; R3-R9 = H, halo, OH, SH, amino, cyano, NO2, (substituted) alkyl, haloalkyl, alkoxy, haloalkoxy, alkoxyalkyl, alkynyl, alkenyl, aryl, heteroaryl, aryloxy, heteroaryloxy, cycloalkyl, cyclocarbonyl, carboxy, alkylcarbonyl, arylcarbonyl, haloalkylcarbonyl, alkylcarbonyloxy, haloalkylcarbonyloxy, alkoxy carbonyl, haloalkoxy carbonyl, alkylthiocarbonyl, haloalkylthiocarbonyl, alkoxythiocarbonyl, haloalkoxythiocarbonyl, alkylamino, arylsulfonylamino, arylamino, alkylthio, arylthio, alkenylthio, alkynylthio, alkylsulfinyl, alkenylsulfinyl, alkynylsulfinyl, alkylsulfonyl, alkenylsulfonyl, alkynylsulfonyl, arylsulfonyl; n = 0-2], were prepared Thus, 4-chloro-3-(2-amino-4-chloro-6-fluoro-3-hydroxyphenyl)-5-difluoromethoxy-1-methyl-1H-pyrazole (preparation given), Et 2-bromopropionate, and K2CO3 were stirred in MeCN overnight to afford 4-chloro-3-(8-chloro-6-fluoro-2-methyl-2H-1,4-benzoxazin-3-on-5-yl)-5-difluoromethoxy-1-methyl-1H-pyrazole. The latter at 250 g/ha postemergent gave 100% control of Amaranthus retroflexus.

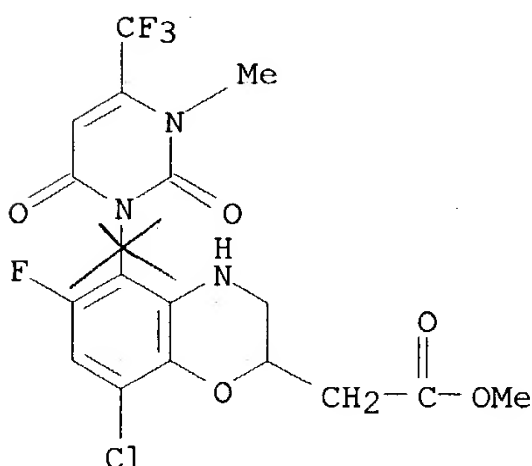
IT 535980-39-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzoxazines, benzoxazoles, and related compds. as herbicides)

RN 535980-39-3 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 8-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-6-fluoro-3,4-dihydro-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:350925 CAPLUS

DOCUMENT NUMBER: 139:164757

TITLE: Synthesis and antimicrobial activity of some novel 2,6,7-trisubstituted 3,4-dihydro-2H-1,4-benzoxazin-3-one derivatives

AUTHOR(S): Yalcin, Ismail; Tekiner, Betul P.; Oren, Ilkay Yildiz; Arpaci, Ozlem Temiz; Aki-Saner, Esin; Altanlar, Nurten
CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Ankara University, Ankara, 06100, Turk.

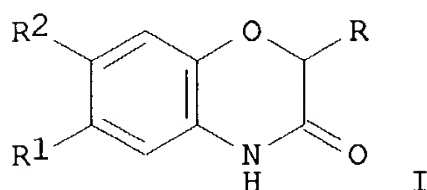
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2003), 42B(4), 905-909

CODEN: IJSBDB; ISSN: 0376-4699

PUBLISHER: National Institute of Science Communication

09/932,732

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:164757
GI



AB Title compds. I (R = OH, CH₂COOEt, CH₂COOH; R₁ = H, Cl, Me; R₂ = H, NO₂, Me) were prepared in order to determine their antimicrobial activities and study

their structure-activity relationships. The synthesized compds. were tested in vitro against two Gram-pos. and three Gram-neg. bacteria and the fungus Candida albicans. The synthesized compds. exhibited MIC values between 50-12.5 µg/mL for the antimicrobial activity against the tested microorganisms. The antibacterial and antifungal activities of I were compared to several standard drugs.

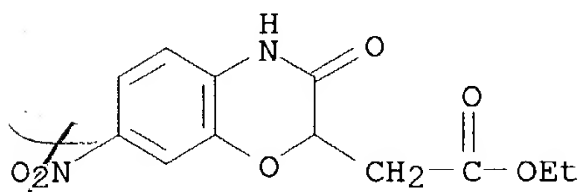
IT 573658-31-8P 573658-33-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antimicrobial activity of 2,6,7-trisubstituted 3,4-dihydro-2H-1,4-benzoxazin-3-ones)

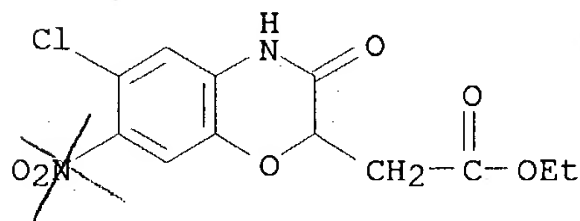
RN 573658-31-8 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-7-nitro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 573658-33-0 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 6-chloro-3,4-dihydro-7-nitro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:282116 CAPLUS

DOCUMENT NUMBER: 138:304291

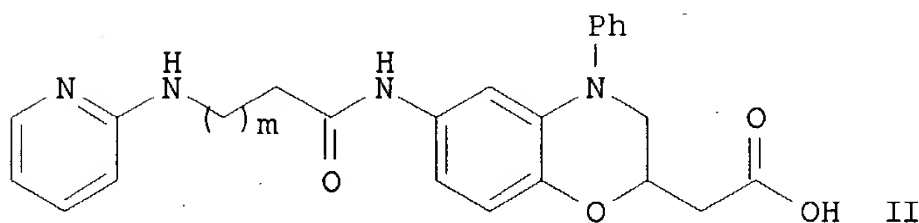
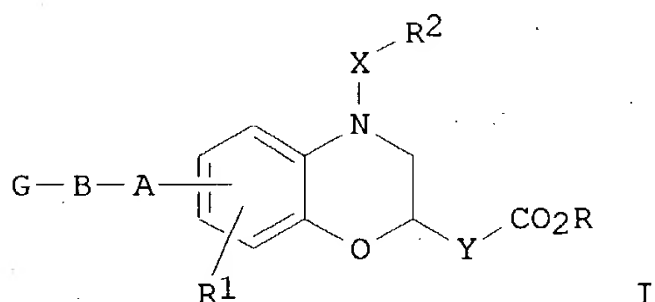
TITLE: New benzoxazine derivatives useful as αvβ3 integrin receptor antagonists

applied

09/932,732

INVENTOR(S): Vianello, Paola; Bandiera, Tiziano; Varasi, Mario
PATENT ASSIGNEE(S): Italy
SOURCE: U.S. Pat. Appl. Publ., 37 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003069236	A1	20030410	US 2001-924732	20010808
PRIORITY APPLN. INFO.:			US 2001-924732	20010808
OTHER SOURCE(S):	MARPAT 138:304291			
GI				



AB The invention relates to a class of compds. I, or pharmaceutically acceptable salts, prodrugs, or esters thereof [wherein: G = Q'NHCONH-, certain cyclic amidines and guanidines, such as pyridin-2-ylamino or imidazolin-2-ylamino, optionally substituted by C1-4-alkyl; Q = NH or O; Q' = H, C1-6 alkyl, Ph, or phenyl-C1-4-alkyl; B = C1-4 alkyl or C2-4 alkenyl; A = CH₂, O, S(O)₀₋₂, NH, CONH, CON(Me), NHCO, N(Me)CO; R₁ = H, C1-4 alkyl, C1-4 alkoxy, OH, halo, or CF₃; X = bond, CO; R₂ = H, C1-4 alkyl, C3-7 cycloalkyl, C1-4-alkylcycloalkyl; aryl (substituted by 0-3 of: halo, CF₃, C1-4 alkyl, OH and C1-4 alkoxy), aralkyl, and C5-7 monocyclic heteroaryl with 1-3 N/O/S atoms (substituted by 0-3 of: halo, CF₃, C1-4 alkyl, OH, and C1-4 alkoxy); Y = (CH₂)₁₋₂; R = H, C1-6 alkyl, C2-4 alkenyl, C2-4 alkynyl, aryl, or aryl-C1-4 alkyl; provided that X ≠ bond when G = H₂NCONH-]. The invention also relates to pharmaceutical compns. comprising I, and to methods of selectively inhibiting or antagonizing αvβ3 integrin using I. The compds. can be used for treatment of a variety of medical conditions, including cancer, and can be used or formulated in combination with other classes of antitumor agents. Approx. 50 compds. are specifically claimed, and synthetic details are given for 6 of them. For example, cyclocondensation of 4-nitro-2-aminophenol with Me 4-bromocrotonate using NaHCO₃ in MeOH gave 91% Me (6-nitro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)acetate. This compound underwent a sequence of: (1) N-phenylation using 1,4-cyclohexanedione and p-MeC₆H₄SO₃H (25%), (2) hydrogenation of nitro to amino (56%), (3) amidation of amino with N-(benzyloxycarbonyl)-N-(1-oxido-2-pyridinyl)-

β -alanine (76%), (4) reduction of the N-oxide using SnCl_2 and TiCl_4 (99%), (5) reductive removal of benzyloxycarbonyl (79.5%), and (6) saponification of the Me ester with aqueous NaOH in EtOH (35%), to give title compound II [m = 1].. Three standard formulations of the similarly prepared II [m = 2] are described. I [m = 2] bound to human $\alpha\text{v}\beta 3$ receptor in vitro with an IC_{50} of 0.024 μM , and to human $\alpha\text{IIb}\beta 3$ receptor with an IC_{50} of 27 μM , thus giving a high selectivity ratio of approx. 1000 for $\alpha\text{v}\beta 3$.

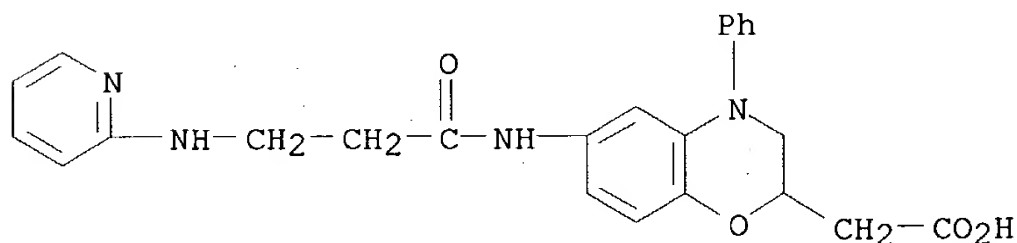
IT **508182-84-1P**, [4-Phenyl-6-[[3-(2-pyridinylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-85-2P**, [4-Phenyl-6-[[4-(2-pyridinylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-86-3P**, [4-Phenyl-6-[[5-(2-pyridinylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-87-4P**, [4-Phenyl-6-[[3-(1H-imidazol-2-ylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-88-5P**, [4-Phenyl-6-[[4-(1H-imidazol-2-ylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-89-6P**, [4-Phenyl-6-[[5-(1H-imidazol-2-ylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-90-9P**, [4-Methyl-6-[[3-(2-pyridinylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-91-0P**, [4-Methyl-6-[[4-(2-pyridinylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-92-1P**, [4-Methyl-6-[[5-(2-pyridinylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-93-2P**, [4-Methyl-6-[[3-(1H-imidazol-2-ylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-94-3P**, [4-Methyl-6-[[4-(1H-imidazol-2-ylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-95-4P**, [4-Methyl-6-[[5-(1H-imidazol-2-ylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-96-5P**, [4-Cyclopropylmethyl-6-[[3-(2-pyridinylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-97-6P**, [4-Cyclopropylmethyl-6-[[4-(2-pyridinylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-98-7P**, [4-Cyclopropylmethyl-6-[[5-(2-pyridinylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508182-99-8P**, [4-Cyclopropylmethyl-6-[[3-(1H-imidazol-2-ylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-00-4P**, [4-Cyclopropylmethyl-6-[[4-(1H-imidazol-2-ylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-01-5P**, [4-Cyclopropylmethyl-6-[[5-(1H-imidazol-2-ylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-02-6P**, [4-Cyclohexylmethyl-6-[[3-(2-pyridinylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-03-7P**, [4-Cyclohexylmethyl-6-[[4-(2-pyridinylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-04-8P**, [4-Cyclohexylmethyl-6-[[5-(2-pyridinylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-05-9P**, [4-Cyclohexylmethyl-6-[[3-(1H-imidazol-2-ylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-06-0P**, [4-Cyclohexylmethyl-6-[[4-(1H-imidazol-2-ylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-07-1P**, [4-Cyclohexylmethyl-6-[[5-(1H-imidazol-2-ylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-08-2P**, [4-Benzyl-6-[[3-(2-pyridinylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-09-3P**, [4-Benzyl-6-[[4-(2-pyridinylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-10-6P**, [4-Benzyl-6-[[5-(2-pyridinylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic

acid **508183-11-7P**, [4-Benzyl-6-[[3-(1H-imidazol-2-ylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-12-8P, [4-Benzyl-6-[[4-(1H-imidazol-2-ylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-13-9P, [4-Benzyl-6-[[5-(1H-imidazol-2-ylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-14-0P, [4-Benzoyl-6-[[3-(2-pyridinylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-15-1P**,
[4-Benzoyl-6-[[4-(2-pyridinylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-16-2P**, [4-Benzoyl-6-[[5-(2-pyridinylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-17-3P**, [4-Benzoyl-6-[[3-(1H-imidazol-2-ylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-18-4P, [4-Benzoyl-6-[[4-(1H-imidazol-2-ylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-19-5P, [4-Benzoyl-6-[[5-(1H-imidazol-2-ylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-20-8P, [4-Nicotinoyl-6-[[3-(2-pyridinylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-21-9P**,
[4-Nicotinoyl-6-[[4-(2-pyridinylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-22-0P**, [4-Nicotinoyl-6-[[5-(2-pyridinylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-23-1P**, [4-Nicotinoyl-6-[[3-(1H-imidazol-2-ylamino)propanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-24-2P, [4-Nicotinoyl-6-[[4-(1H-imidazol-2-ylamino)butanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-25-3P, [4-Nicotinoyl-6-[[5-(1H-imidazol-2-ylamino)pentanoyl]amino]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
508183-26-4P, [4-Phenyl-6-[[[2-(2-pyridinylamino)ethyl]amino]carbonyl]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-27-5P**,
[4-Phenyl-6-[[[3-(2-pyridinylamino)propyl]amino]carbonyl]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-28-6P**,
[4-Phenyl-6-[[[4-(2-pyridinylamino)butyl]amino]carbonyl]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-29-7P**,
[4-Phenyl-6-[[[2-(1H-imidazol-2-ylamino)ethyl]amino]carbonyl]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-30-0P**,
[4-Phenyl-6-[[[3-(1H-imidazol-2-ylamino)propyl]amino]carbonyl]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid **508183-31-1P**,
[4-Phenyl-6-[[[4-(1H-imidazol-2-ylamino)butyl]amino]carbonyl]-3,4-dihydro-2H-1,4-benzoxazin-2-yl]acetic acid
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of benzoxazine derivs. as selective $\alpha\text{v}\beta 3$ integrin receptor antagonists)

RN 508182-84-1 CAPLUS

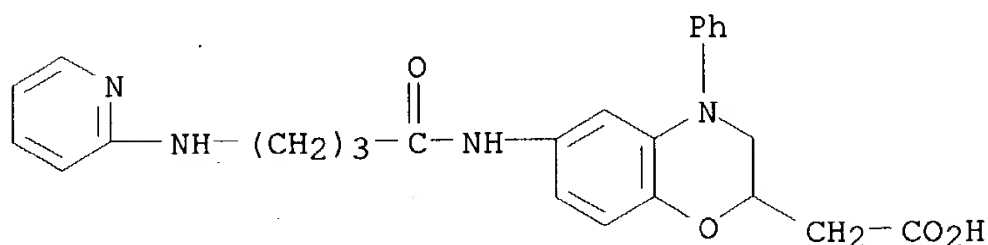
CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-[[1-oxo-3-(2-pyridinylamino)propyl]amino]-4-phenyl- (9CI) (CA INDEX NAME)



RN 508182-85-2 CAPLUS

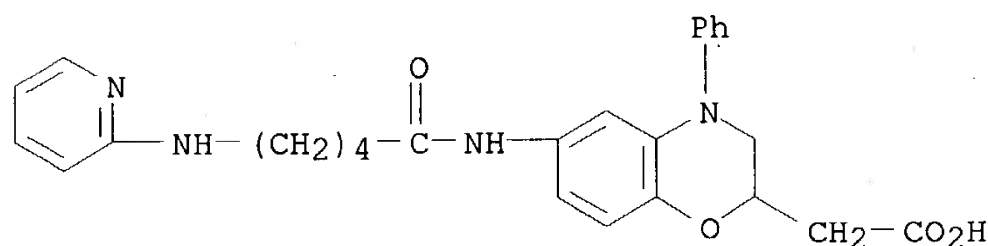
09/932,732

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-[[1-oxo-4-(2-pyridinylamino)butyl]amino]-4-phenyl- (9CI) (CA INDEX NAME)



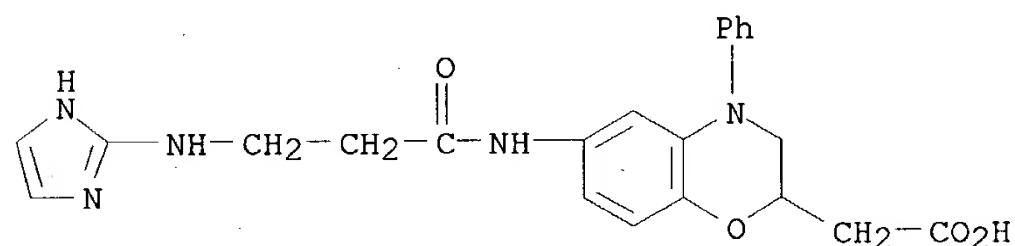
RN 508182-86-3 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-[[1-oxo-5-(2-pyridinylamino)pentyl]amino]-4-phenyl- (9CI) (CA INDEX NAME)



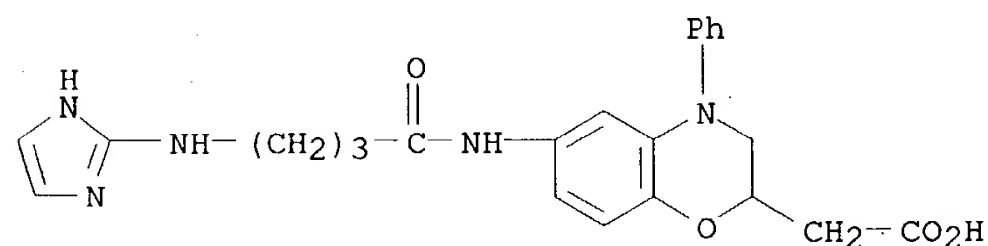
RN 508182-87-4 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-[[3-(1H-imidazol-2-ylamino)-1-oxopropyl]amino]-4-phenyl- (9CI) (CA INDEX NAME)



RN 508182-88-5 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-[[4-(1H-imidazol-2-ylamino)-1-oxobutyl]amino]-4-phenyl- (9CI) (CA INDEX NAME)



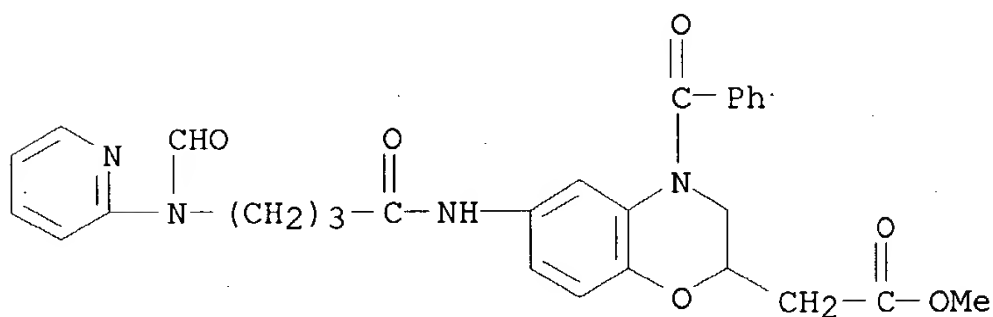
RN 508182-89-6 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-[[5-(1H-imidazol-2-ylamino)-1-oxopentyl]amino]-4-phenyl- (9CI) (CA INDEX NAME)

09/932,732

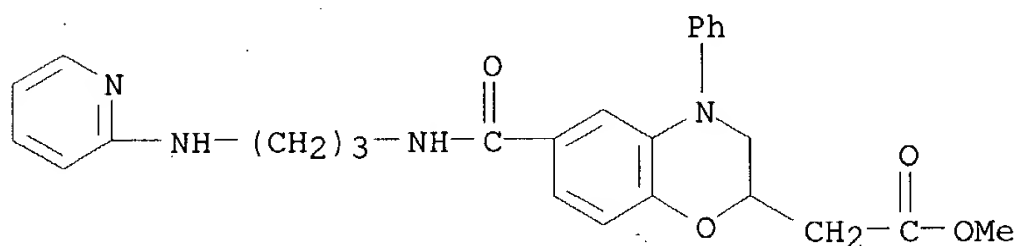
RN 508183-53-7 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-benzoyl-6-[[4-(formyl-2-pyridinylamino)-1-oxobutyl]amino]-3,4-dihydro-, methyl ester (9CI) (CA INDEX NAME)



RN 508183-60-6 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-4-phenyl-6-[[[3-(2-pyridinylamino)propyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:832759 CAPLUS

DOCUMENT NUMBER: 137:353062

TITLE: Preparation of 2-iminopyrrolidine derivatives as thrombin receptor antagonists

INVENTOR(S): Suzuki, Shuichi; Kotake, Makoto; Miyamoto, Mitsuaki; Kawahara, Tetsuya; Kajiwara, Akiharu; Hishinuma, Ieharu; Okano, Kazuo; Miyazawa, Syuhei; Clark, Richard; Ozaki, Fumihiko; Sato, Nobuaki; Shinoda, Masanobu; Kamada, Atsushi; Tsukada, Itaru; Matsuura, Fumiyoshi; Naoe, Yoshimitsu; Terauchi, Taro; Oohashi, Yoshiaki; Ito, Osamu; Tanaka, Hiroshi; Musya, Takashi; Kogushi, Motoji; Kawada, Tsutomu; Matsuoka, Toshiyuki; Kobayashi, Hiroko; Chiba, Kenichi; Kimura, Akifumi; Ono, Naoto

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 948 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

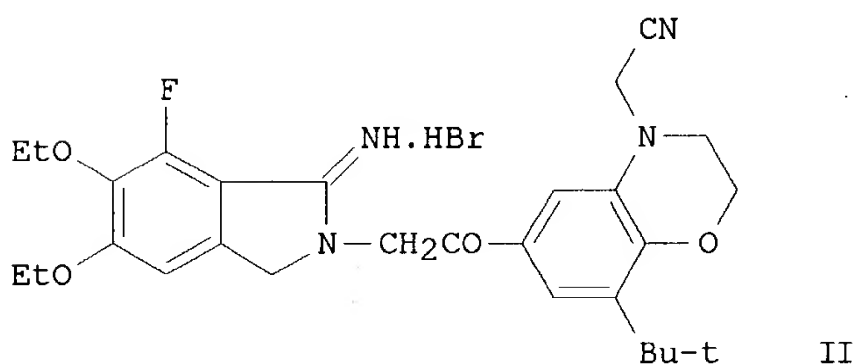
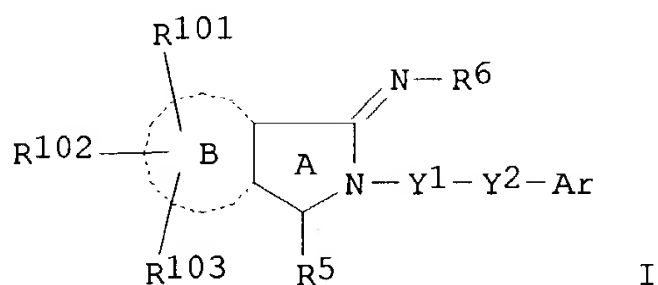
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002085855	A1	20021031	WO 2002-JP3961	20020419
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1391451 A1 20040225 EP 2002-724628 20020419
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 BR 2002008985 A 20040309 BR 2002-8985 20020419
 PRIORITY APPLN. INFO.: JP 2001-121829 A 20010419
 JP 2001-269422 A 20010905
 WO 2002-JP3961 W 20020419
 OTHER SOURCE(S): MARPAT 137:353062
 GI



AB 2-Iminopyrrolidine derivs. including 2,3-dihydro-1H-isoindole and 6,7-dihydro-5H-pyrrolo[3,4-b]pyridine represented by the general formula (I) or salts thereof [wherein B = (un)substituted aromatic hydrocarbon or aromatic heterocyclic ring optionally containing 1 or 2 N atom(s); R101, R102, R103 = H, cyano, halo, each (un)substituted C1-6 alkyl, C2-8 alkenyl, C2-8 alkynyl, acyl, CO2H, CONH2, C1-6 alkoxy, C1-6 alkoxycarbonyl, C1-6 alkylaminocarbonyl, HO, C1-6 alkoxy, C3-8 cycloalkyloxy, NH2, C1-6 alkylamino, C3-8 cycloalkylamino, acylamino, ureido, sulfonylamino, sulfonyl, SO2NH2, or C3-8 cycloalkyl, etc.; Y1 = a single bond, (CH2)m, each (un)substituted CH, CH2, NH, CONH, or SO2NH, CH2CO, SO, SO2, CO (wherein m = an integer of 1-3); Y2 = a single bond, O, N, (CH2)m, each (un)substituted CH, CH2, or C(:NOH), CO, SO, SO2; Ar = H, (un)substituted Ph] are prepared These compds. are thrombin receptor antagonists, in particular thrombin PAR1 receptor antagonists and are useful as blood platelet aggregation inhibitors and proliferation inhibitors of smooth muscle cell, endothelial cell, fibroblast, kidney cell, osteosarcoma cell, muscle cell, cancer cell, and/or glial cell and for the treatment and/or prevention of

thrombosis, vascular restenosis, deep vein thrombosis, lung embolism, cerebral infarction, heart disease, disseminated intravascular coagulation syndrome, hypertension, inflammation, rheumatism, asthma, glomerulonephritis, osteoporosis, nerve disease, and/or malignant tumor. Thus, [6-[(1-imino-1,3-dihydroisoindol-2-yl)acetyl]-2,3-dihydrobenz[1,4]oxazin-4-yl]acetonitrile derivative (II) in vitro showed IC₅₀ of 0.017 μ M for inhibiting the binding of [3H]Ala-(4-fluoro)Phe-Arg-(cyclohexyl)Ala-homoArg-Tyr-NH₂ to thrombin receptor of human blood platelet, that of 0.29 μ M for inhibiting the human blood platelet aggregation induced by thrombin, and that of 0.0061 μ M for inhibiting the proliferation of rat smooth cell.

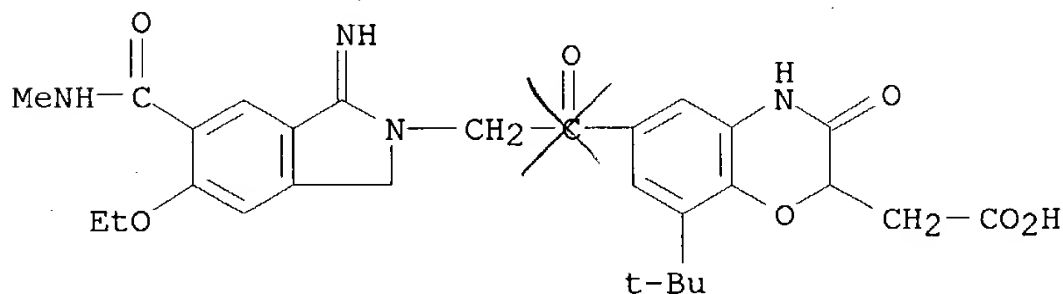
IT 474549-56-9P 474549-57-0P 474549-58-1P
 474549-59-2P 474549-60-5P 474550-05-5P
 474550-17-9P 474550-18-0P 474550-19-1P
 474550-20-4P 474550-21-5P 474550-22-6P
 474550-23-7P 474550-24-8P 474550-25-9P
 474550-26-0P 474633-56-2P 474633-57-3P
 474633-58-4P 474633-59-5P 474633-60-8P
 474633-61-9P 474633-67-5P 474633-68-6P
 474639-68-4P 474639-69-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of dihydroisoindole and dihydro-5H-pyrrolo[3,4-b]pyridine derivs. as thrombin receptor antagonists and remedies and/or preventives for diseases)

RN 474549-56-9 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 8-(1,1-dimethylethyl)-6-[[5-ethoxy-1,3-dihydro-1-imino-6-[(methylamino)carbonyl]-2H-isoindol-2-yl]acetyl]-3,4-dihydro-3-oxo-, monohydrobromide (9CI) (CA INDEX NAME)

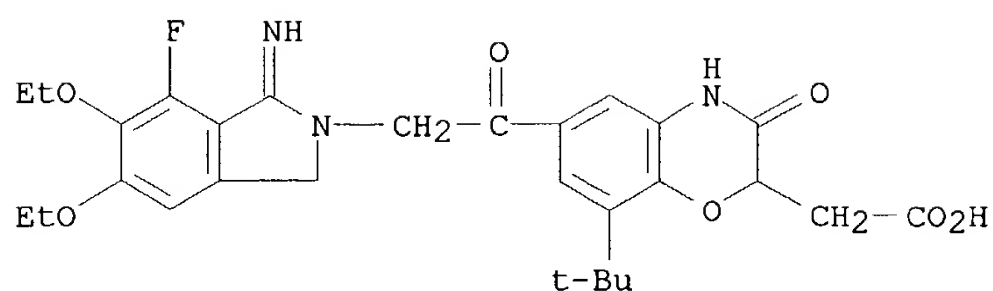


● HBr

RN 474549-57-0 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 6-[(5,6-diethoxy-7-fluoro-1,3-dihydro-1-imino-2H-isoindol-2-yl)acetyl]-8-(1,1-dimethylethyl)-3,4-dihydro-3-oxo-, monohydrobromide (9CI) (CA INDEX NAME)

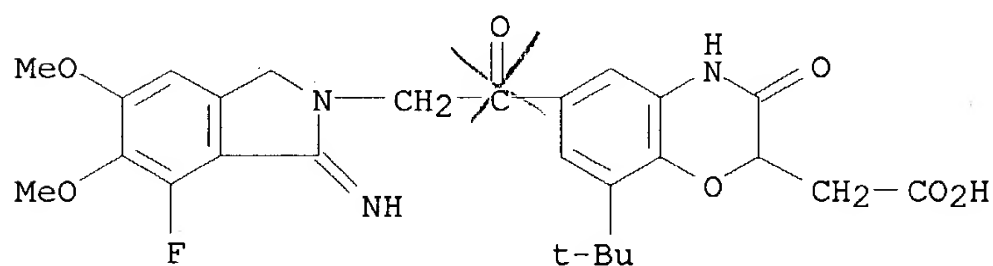
09/932,732



● HBr

RN 474549-58-1 CAPLUS

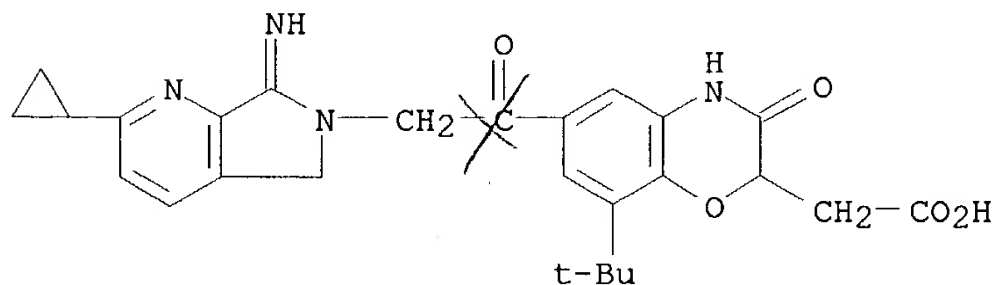
CN 2H-1,4-Benzoxazine-2-acetic acid, 8-(1,1-dimethylethyl)-6-[(7-fluoro-1,3-dihydro-1-imino-5,6-dimethoxy-2H-isoindol-2-yl)acetyl]-3,4-dihydro-3-oxo-, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 474549-59-2 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 6-[(2-cyclopropyl-5,7-dihydro-7-imino-6H-pyrrolo[3,4-b]pyridin-6-yl)acetyl]-8-(1,1-dimethylethyl)-3,4-dihydro-3-oxo-, monohydrobromide (9CI) (CA INDEX NAME)

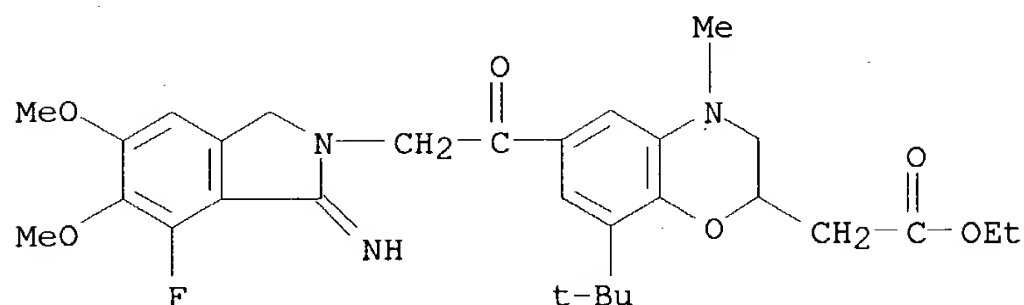


● HBr

RN 474549-60-5 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 8-(1,1-dimethylethyl)-6-[[3-ethoxy-5,7-dihydro-7-imino-2-[(methylamino)carbonyl]-6H-pyrrolo[3,4-b]pyridin-6-yl]acetyl]-3,4-dihydro-3-oxo-, monohydrobromide (9CI) (CA INDEX NAME)

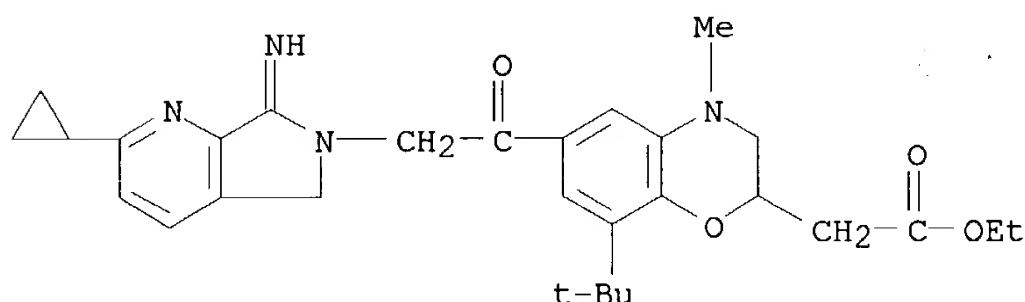
methyl-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 474639-69-5 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 6-[(2-cyclopropyl-5,7-dihydro-7-imino-6H-pyrrolo[3,4-b]pyridin-6-yl)acetyl]-8-(1,1-dimethylethyl)-3,4-dihydro-4-methyl-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

REFERENCE COUNT: 100 THERE ARE 100 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L7 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:790731 CAPLUS

DOCUMENT NUMBER: 138:187720

TITLE: A synthetic route to hexahydro[1,4]oxazino[2,3-h]- and [3,2-j]β-carboline derivatives

AUTHOR(S): Mayer, Stanislas; Joseph, Benoit; Guillaumet, Gerald; Merour, Jean-Yves

CORPORATE SOURCE: Institut de Chimie Organique et Analytique, UMR CNRS 6005, Universite d'Orleans, Orleans, 45067, Fr.

SOURCE: Synthesis (2002), (13), 1871-1878

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:187720

AB Convenient methods for the regioselective formylation of tetrahydro[1,4]oxazino[2,3-f]- and [3,2-g]indole derivs. are described. The obtained formyl derivs. were further transformed in four steps into the unknown hexahydro[1,4]oxazino[2,3-h]- and [3,2-j]β-carbolines.

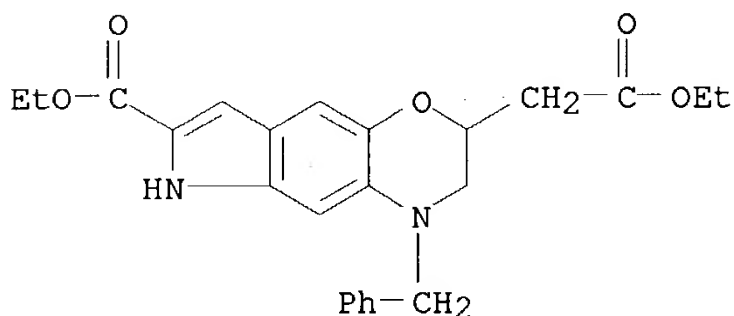
IT 462117-27-7 462117-34-6 462117-35-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of hexahydrooxazinocarboline derivatives via regioselective formylation of tetrahydrooxazinoindoles and cyclization of corresponding nitroalkyl derivs. with subsequent dehydrogenation)

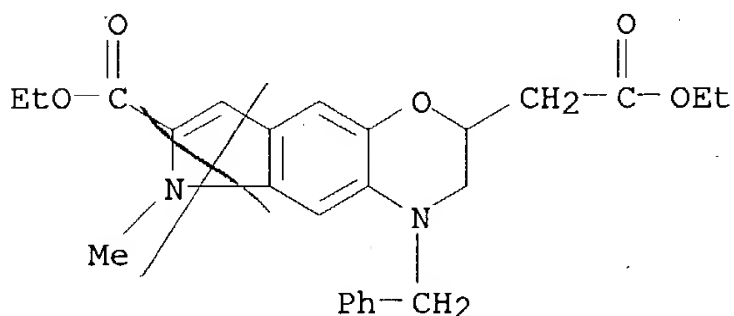
RN 462117-27-7 CAPLUS

CN Pyrrolo[2,3-g]-1,4-benzoxazine-2-acetic acid, 7-(ethoxycarbonyl)-2,3,4,6-tetrahydro-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



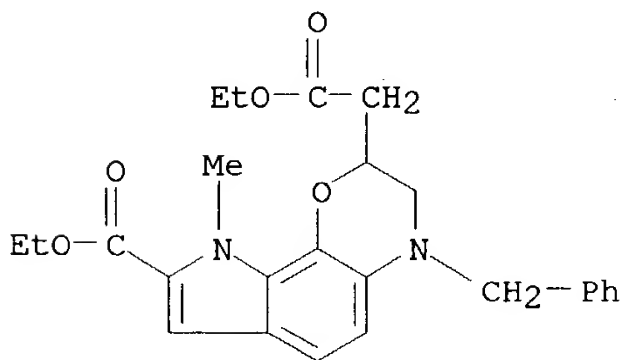
RN 462117-34-6 CAPLUS

CN Pyrrolo[2,3-g]-1,4-benzoxazine-2-acetic acid, 7-(ethoxycarbonyl)-2,3,4,6-tetrahydro-6-methyl-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 462117-35-7 CAPLUS

CN Pyrrolo[3,2-h]-1,4-benzoxazine-2-acetic acid, 8-(ethoxycarbonyl)-2,3,4,9-tetrahydro-9-methyl-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



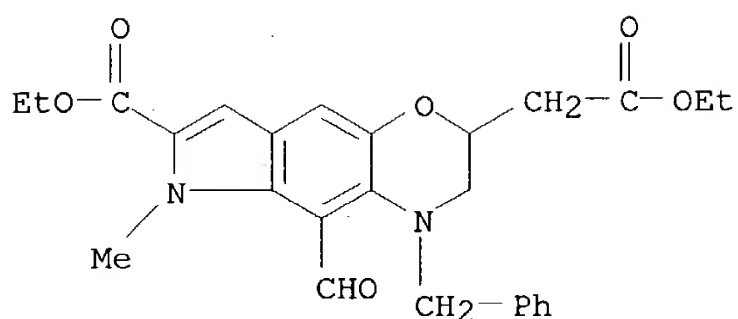
IT 497945-79-6P 497945-80-9P 497945-84-3P

497945-85-4P 497945-87-6P 497945-89-8P

497945-92-3P 497945-93-4P 497945-94-5P

497945-96-7P 497945-97-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:394361 CAPLUS
 DOCUMENT NUMBER: 137:262998
 TITLE: Synthesis and reactivity of 1,4-oxazinoindole derivatives
 AUTHOR(S): Mayer, Stanislas; Merour, Jean-Yves; Joseph, Benoit; Guillaumet, Gerald
 CORPORATE SOURCE: Institut de Chimie Organique et Analytique, UMR-CNRS 6005, Universite d'Orleans, Orleans, 45067, Fr.
 SOURCE: European Journal of Organic Chemistry (2002), (10), 1646-1653
 CODEN: EJOCFK; ISSN: 1434-193X
 PUBLISHER: Wiley-VCH Verlag GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Application of the Hemetsberger reaction to Et 4-benzyl-7-formyl-2,3-dihydro-1,4-benzoxazine esters I (n = 0, 1) afforded a mixture of 2,3,4,6-tetrahydro[1,4]oxazino[2,3-f]indole esters (II) and 2,3,4,9-tetrahydro[1,4]oxazino[3,2-g]indole esters (III), with the "linear" derivs. predominant. Michael addition of tert-Bu acrylate to the indole nitrogen atom of II and subsequent electrophilic cyclization gave access to tetracyclic compds. (IV).

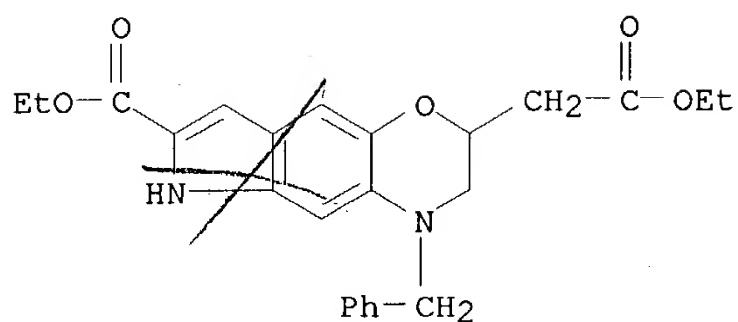
IT 462117-27-7P 462117-29-9P 462117-30-2P
 462117-37-9P 462117-41-5P 462117-43-7P
 462117-45-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reactivity of 1,4-oxazinoindole derivs.)

RN 462117-27-7 CAPLUS

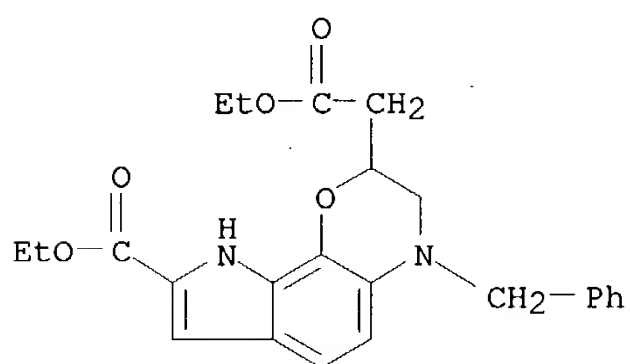
CN Pyrrolo[2,3-g]-1,4-benzoxazine-2-acetic acid, 7-(ethoxycarbonyl)-2,3,4,6-tetrahydro-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

09/932,732



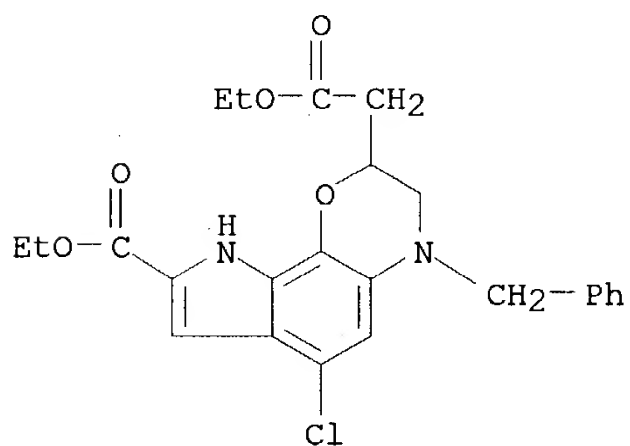
RN 462117-29-9 CAPLUS

CN Pyrrolo[3,2-h]-1,4-benzoxazine-2-acetic acid, 8-(ethoxycarbonyl)-2,3,4,9-tetrahydro-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 462117-30-2 CAPLUS

CN Pyrrolo[3,2-h]-1,4-benzoxazine-2-acetic acid, 6-chloro-8-(ethoxycarbonyl)-2,3,4,9-tetrahydro-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 462117-37-9 CAPLUS

CN Pyrrolo[3,2-h]-1,4-benzoxazine-2-acetic acid, 6-chloro-8-(ethoxycarbonyl)-2,3,4,9-tetrahydro-9-methyl-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

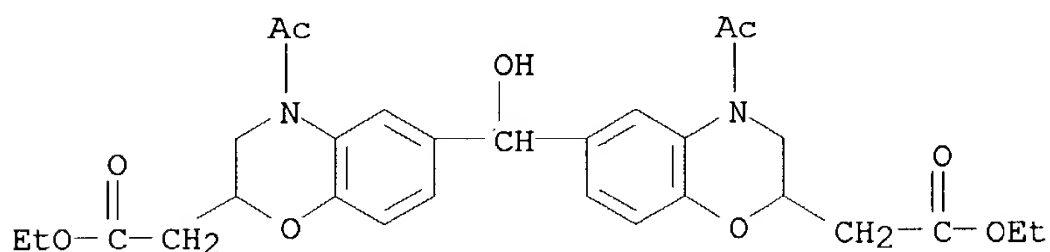
the Rieche's method.

IT **391873-85-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and regioselective formylation of 3,4-dihydro-2H-1,4-benzoxazine-2-carboxylate or 3,4-dihydro-2H-1,4-benzoxazine-2-acetate derivs.)

RN 391873-85-1 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 6,6'-(hydroxymethylene)bis[4-acetyl-3,4-dihydro-, diethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:674585 CAPLUS

DOCUMENT NUMBER: 136:85444

TITLE: Trimethylsilyldiazomethane in the preparation of diazoketones via mixed anhydride and coupling reagent methods: a new approach to the Arndt-Eistert synthesis

AUTHOR(S): Cesar, J.; Sollner Dolenc, M.

CORPORATE SOURCE: Faculty of Pharmacy, University of Ljubljana, Ljubljana, 1000, Slovenia

SOURCE: Tetrahedron Letters (2001), 42(40), 7099-7102
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

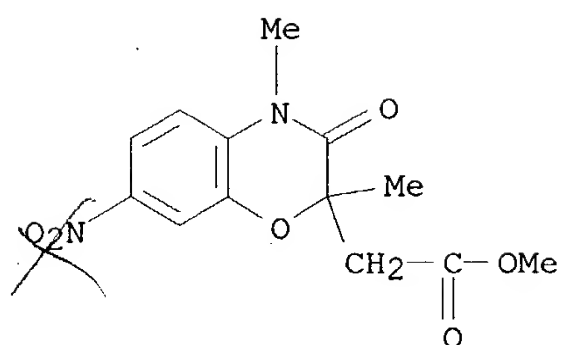
AB Reaction of trimethylsilyldiazomethane with a mixed anhydride derived from a carboxylic acid by the action of Et chloroformate yields the corresponding diazoketone in high yield. Subsequent Wolff rearrangement of the diazoketone leads to the homologated ester. Reaction of trimethylsilyldiazomethane with carboxylic acid-dicyclohexylcarbodiimide mixts. leads to the formation of diazoketone and trimethylsilylmethyl ester in equimolar ratio via an acid anhydride intermediate. The N-hydroxysuccinimide ester of the acid does not react with trimethylsilyldiazomethane or with its more reactive lithiated derivative

IT **386214-89-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction of trimethylsilyldiazomethane with a mixed anhydride)

RN 386214-89-7 CAPLUS

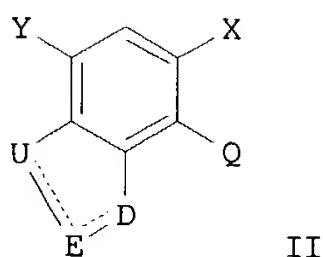
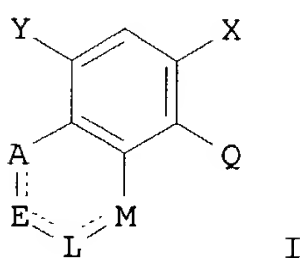
CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-2,4-dimethyl-7-nitro-3-oxo-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:175634 CAPLUS
 DOCUMENT NUMBER: 132:190849
 TITLE: Preparation of fused benzene derivative herbicides
 INVENTOR(S): Tsukamoto, Masamitsu; Gupto, Sandeep; Wu, Shao-Yong; Ying, Bai-Ping; Pulman, David A.
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
 SOURCE: PCT Int. Appl., 377 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000013508	A1	20000316	WO 1999-US18836	19990903
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9960187	A1	20000327	AU 1999-60187	19990903
EP 1111993	A1	20010704	EP 1999-968602	19990903
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9913503	A	20020129	BR 1999-13503	19990903
JP 2002524399	T2	20020806	JP 2000-568327	19990903
US 6573218	B1	20030603	US 2001-786816	20010705
US 2004029734	A1	20040212	US 2002-301799	20021122
PRIORITY APPLN. INFO.:			US 1998-149296	A2 19980909
			WO 1999-US18836	W 19990903
			US 2001-786816	A3 20010705
OTHER SOURCE(S):			CASREACT 132:190849; MARPAT 132:190849	
GI				



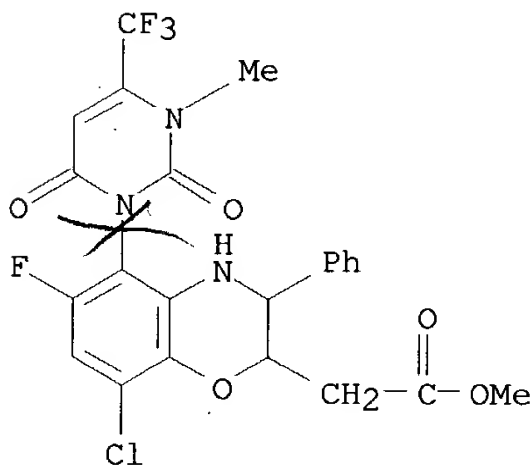
AB The fused benzene derivs. I and II [X, Y = H, halo, CN, NO₂, etc.; A = O, N, NR₁, SOn, C:O, C:S, C(:NR₁) etc.; D = N or NR₂; M = N, NR₂, SOn, C:O, C:S, C(:NR₂), etc.; E, L = O, N, C:O, C:S, etc.; U = O, N, NR₂, C:O, C:S, C(:NR₂), etc.; R₁, R₂ = H, alkyl, alkenyl, alkynyl, alkylcarbonyl, etc.; n = 0, 1 or 2; Q = (un)substituted heterocyclyl] are prepared as herbicides, such as for corn, soybean or plantation crops. The compds. are also useful as defoliants for potato and cotton.

IT **260253-28-9P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as herbicide)

RN 260253-28-9 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 8-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-6-fluoro-3,4-dihydro-3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

17

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:568813 CAPLUS

DOCUMENT NUMBER: 129:189671

TITLE: Production and use of bicyclic amino acids as integrin inhibitors for treatment of disease

INVENTOR(S): Diefenbach, Beate; Goodman, Simon; Marz, Joachim; Raddatz, Peter; Rippmann, Friedrich; Wiesner, Matthias

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany

SOURCE: PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

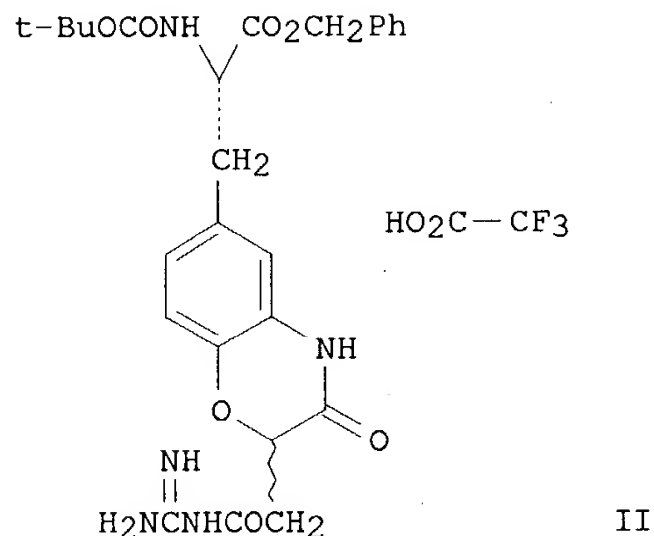
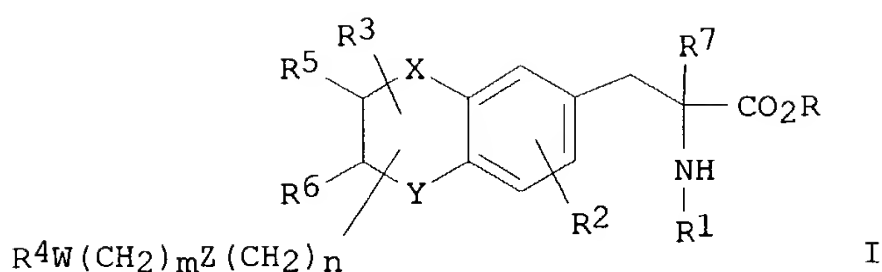
WO 9835949	A1	19980820	WO 1998-EP636	19980206
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DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,				
KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,				
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,				
US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,				
FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,				
GA, GN, ML, MR, NE, SN, TD, TG				
DE 19705450	A1	19980820	DE 1997-19705450	19970213
AU 9866206	A1	19980908	AU 1998-66206	19980206
AU 735313	B2	20010705		
EP 964856	A1	19991222	EP 1998-908063	19980206
EP 964856	B1	20021009		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,				
SI, LT, LV, FI, RO				
BR 9807345	A	20000321	BR 1998-7345	19980206
JP 2001511789	T2	20010814	JP 1998-535303	19980206
CN 1085205	B	20020522	CN 1998-803959	19980206
RU 2187506	C2	20020820	RU 1999-119223	19980206
AT 225776	E	20021015	AT 1998-908063	19980206
PT 964856	T	20030228	PT 1998-908063	19980206
ES 2183332	T3	20030316	ES 1998-908063	19980206
ZA 9801178	A	19990521	ZA 1998-1178	19980212
NO 9903901	A	19991012	NO 1999-3901	19990812
MX 9907464	A	20000930	MX 1999-7464	19990812
US 2001021709	A1	20010913	US 2001-842004	20010426
US 6559144	B2	20030506		

PRIORITY APPLN. INFO.:

DE 1997-19705450	A	19970213
WO 1998-EP636	W	19980206
US 1999-367219	B3	19991228

OTHER SOURCE(S): MARPAT 129:189671

GI



AB The invention relates to compds. of formula [(I); R = H, alkyl, CH₂Ph; R₁ = R₈, COR₈, COOR₉, COOR₈, SO₂R₉, SO₂R₈; R₈ = H, (hetero)aromatic, aralkyl; R₉ = (un)substituted heterocyclic; R₂ = H, halogen, OA, NHR₈, N(R₈)₂, NH-acyl, O-acyl, NC, NO₂, OR₈, SR₈, R₁, CONHR₈; A, A' = H, (un)substituted (hetero-cyclo)alkyl; R₃ = H, O, S, alkyl, acyl; R₄ = (substituted) NH₂, (substituted) H₂NC(:NH), (substituted) H₂N(C:NH)NH; R₅, R₆ = H, bond; X, Y = (independently) N, O, S, CH₂, C; W, Z = (independently) O, S, NR, CO, CONH, NHCO, C(S)NH, NHC(S), C(S), SO₂NH, NHSO₂, CA:CA'; m, n = (independently) 0-4], and to their physiol. acceptable salts. Thus, II was synthesized, starting from BOC-3-nitro-L-tyrosine benzyl ester and maleic anhydride. Said compds. can be used as integrin inhibitors, especially for prophylaxis and treatment of circulatory diseases, thrombosis, infarcts, coronary heart diseases, arteriosclerosis, osteoporosis, pathol. symptoms sustained or propagated by angiogenesis and in tumor therapy.

IT **211622-03-6P 211622-34-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

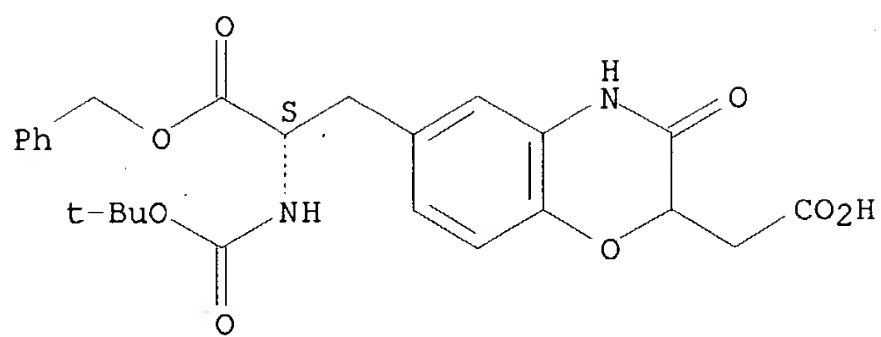
(production and use of bicyclic amino acids as integrin inhibitors for treatment of disease)

RN 211622-03-6 CAPLUS

CN 2H-1,4-Benzoxazine-2,6-diacetic acid, α₆-[[[(1,1-dimethylethoxy)carbonyl]amino]-3,4-dihydro-3-oxo-, α₆-(phenylmethyl) ester, (α₆S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

09/932,732



RN 211622-34-3 CAPLUS

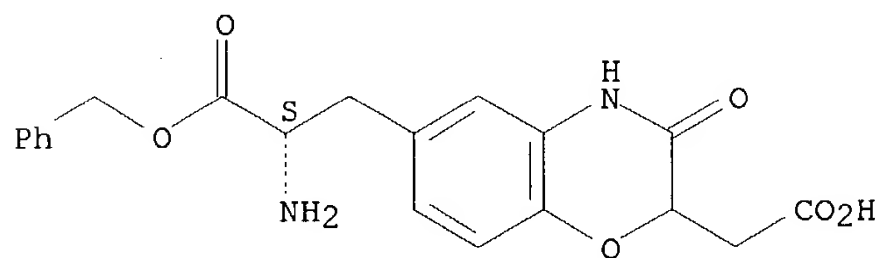
CN 2H-1,4-Benzoxazine-2,6-diacetic acid, α 6-amino-3,4-dihydro-3-oxo-,
 α 6-(phenylmethyl) ester, (α 6S)-, mono(trifluoroacetate) (9CI)
(CA INDEX NAME)

CM 1

CRN 211622-33-2

CMF C20 H20 N2 O6

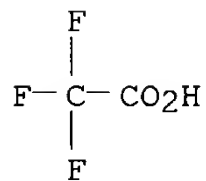
Absolute stereochemistry.



CM 2

CRN 76-05-1

CMF C2 H F3 O2



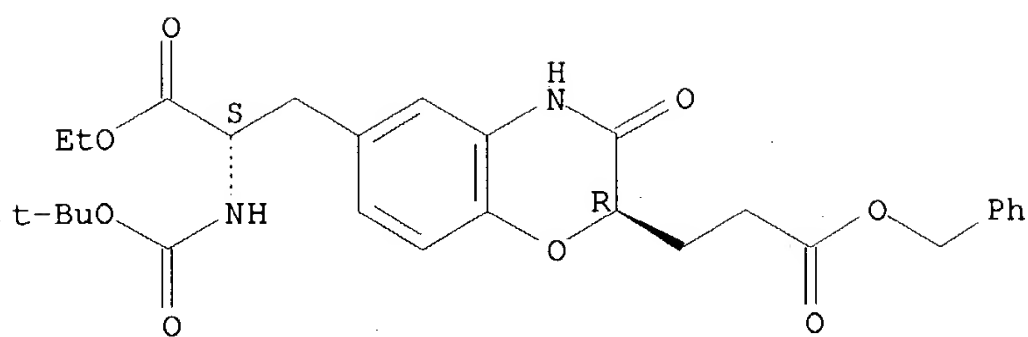
IT **211622-55-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(production and use of bicyclic amino acids as integrin inhibitors for
treatment of disease)

RN 211622-55-8 CAPLUS

CN 2H-1,4-Benzoxazine-2,6-dipropionic acid, α 6-[[(1,1-
dimethylethoxy)carbonyl]amino]-3,4-dihydro-3-oxo-, α 6-ethyl
 α 2-(phenylmethyl) ester, (α 6S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



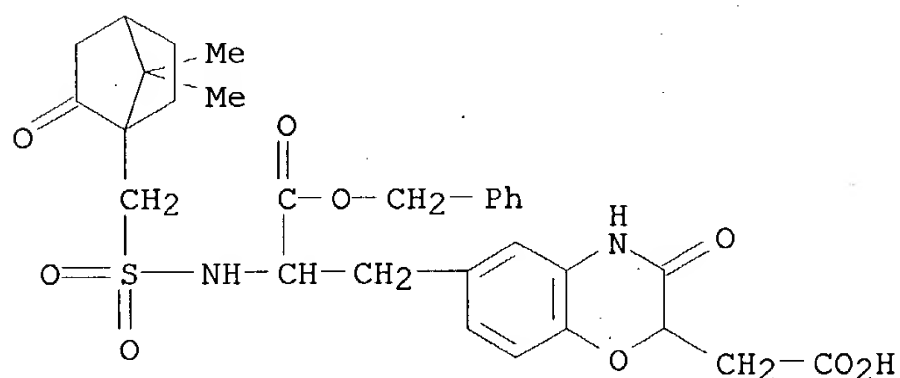
IT 211622-36-5P 211622-56-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(production and use of bicyclic amino acids as integrin inhibitors for treatment of disease)

RN 211622-36-5 CAPLUS

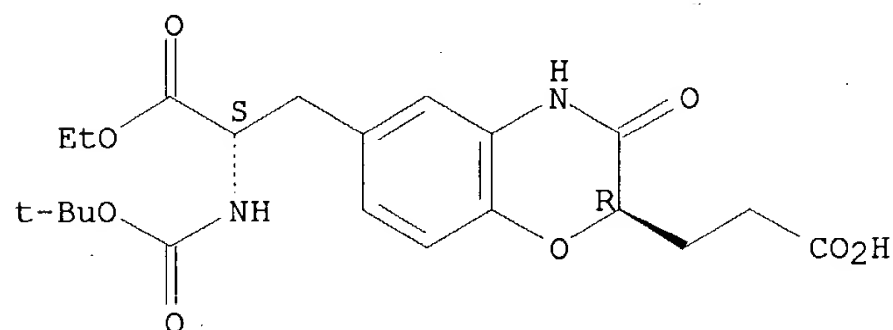
CN 2H-1,4-Benzoxazine-2,6-diacetic acid, α 6-[[[(1S,4R)-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl]methyl]sulfonyl]amino]-3,4-dihydro-3-oxo-, α 6-(phenylmethyl) ester, (α 6S)- (9CI) (CA INDEX NAME)



RN 211622-56-9 CAPLUS

CN 2H-1,4-Benzoxazine-2,6-dipropenoic acid, α 6-[[[(1,1-dimethylethoxy)carbonyl]amino]-3,4-dihydro-3-oxo-, α 6-ethyl ester, (α 6S,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

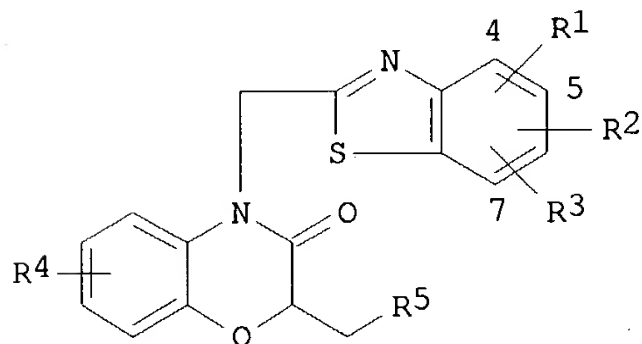
ACCESSION NUMBER: 1995:909474 CAPLUS

DOCUMENT NUMBER: 123:313987

TITLE: Preparation and formulation of benzoxazineacetic acid derivatives as aldose reductase inhibitors

INVENTOR(S): Kumonaka, Takahiro; Hase, Takema; Aotsuka, Tomoji;
Kurihara, Toshio; Nakamura, Yoshiyuki; Matsui, Tetsuo;
Ishikawa, Hiromichi; Kobayashi, Fujio
PATENT ASSIGNEE(S): Senju Pharmaceutical Co., Ltd., Japan; Green Cross
Corporation
SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9518805	A1	19950713	WO 1994-JP5	19940106
W: AU, CA, CN, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9458232	A1	19950801	AU 1994-58232	19940106
AU 684260	B2	19971211		
EP 738727	A1	19961023	EP 1994-903999	19940106
EP 738727	B1	20010926		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1143367	A	19970219	CN 1994-195041	19940106
AT 206121	E	20011015	AT 1994-903999	19940106
US 5635505	A	19970603	US 1996-666326	19960703
PRIORITY APPLN. INFO.:			CA 1994-2180340	A 19940106
			WO 1994-JP5	W 19940106
OTHER SOURCE(S):		MARPAT 123:313987		
GI				



I

AB The title compds. I [R1 - R3 = H, alkyl, etc.; R4 = H, halo, etc.; R5 = (esterified) carboxyl] are prepared I have aldose reductase inhibiting activity and are useful as agents for preventing or treating complications of diabetes. I [R1 = 5-Cl; R2 = R3 = R4 = H; R5 = CO2H] in vitro showed IC50 of 8.6×10^{-9} M against aldose reductase. The activities of 8 compds. of this invention in diabetic rats are given in a table in this document.

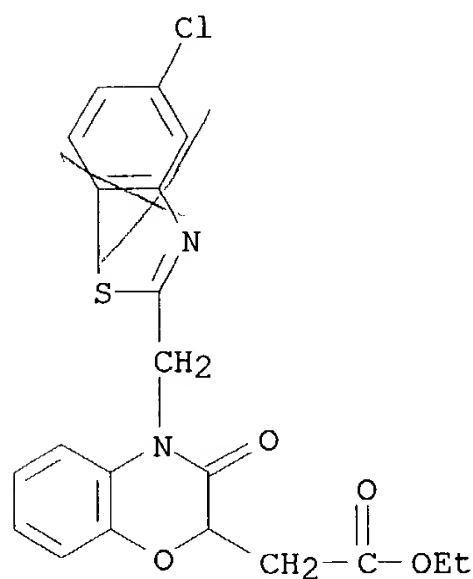
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158870-39-4P 158870-40-7P 158870-41-8P
158870-42-9P 158870-43-0P 158870-44-1P
158870-45-2P 158870-46-3P 158870-47-4P
158870-48-5P 158870-49-6P 158870-50-9P
158870-51-0P 158870-52-1P 158870-53-2P
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 158870-66-7P 158870-67-8P 158870-68-9P
 158870-69-0P 158870-70-3P 158870-71-4P
 158870-72-5P 158870-73-6P 158870-74-7P
 158870-75-8P 158870-76-9P 158870-77-0P
 158870-78-1P 158870-79-2P 158870-80-5P
 158870-81-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzoxazineacetic acid derivs. as aldose reductase inhibitors)

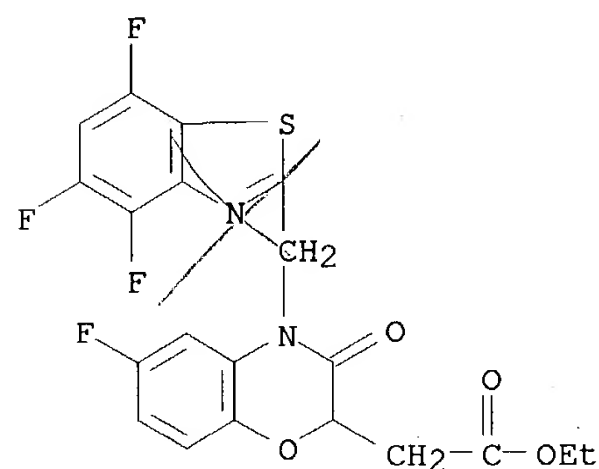
RN 158870-36-1 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(5-chloro-2-benzothiazolyl)methyl]-3,4-dihydro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 158870-37-2 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 6-fluoro-3,4-dihydro-3-oxo-4-[(4,5,7-trifluoro-2-benzothiazolyl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



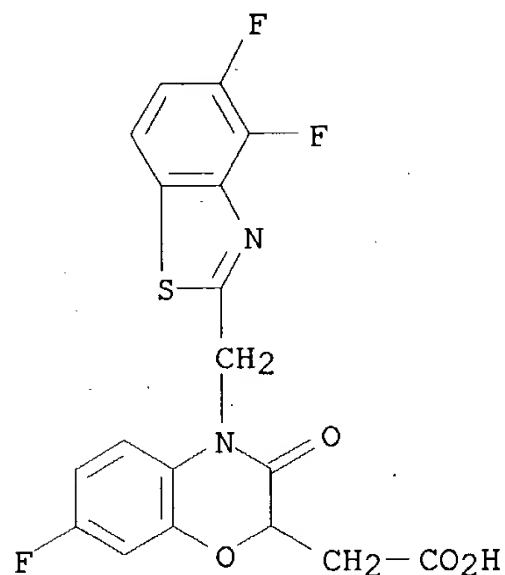
RN 158870-38-3 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(4,5-difluoro-2-benzothiazolyl)methyl]-6-fluoro-3,4-dihydro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

09/932,732

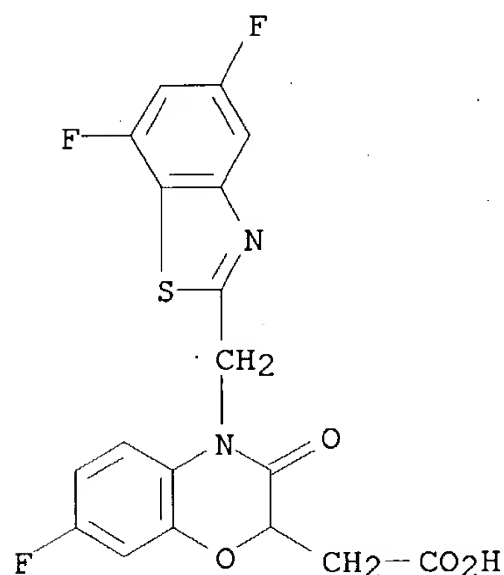
RN 158870-80-5 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(4,5-difluoro-2-benzothiazolyl)methyl]-7-fluoro-3,4-dihydro-3-oxo- (9CI) (CA INDEX NAME)



RN 158870-81-6 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(5,7-difluoro-2-benzothiazolyl)methyl]-7-fluoro-3,4-dihydro-3-oxo- (9CI) (CA INDEX NAME)



L7 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:680655 CAPLUS

DOCUMENT NUMBER: 121:280655

TITLE: preparation of 1,4-benzoxazine-2-acetic acids for treatment of diabetes complications

INVENTOR(S): Kumonaka, Yasuhiro; Hase, Dakeshin; Aozuka, Tomoshi; Kurihara, Toshio; Nakamura, Yoshuki; Matsui, Tetsuo; Ishikawa, Hirotomo; Kobayashi, Fujio

PATENT ASSIGNEE(S): Senju Pharma Co, Japan; Green Cross Corp

SOURCE: Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF

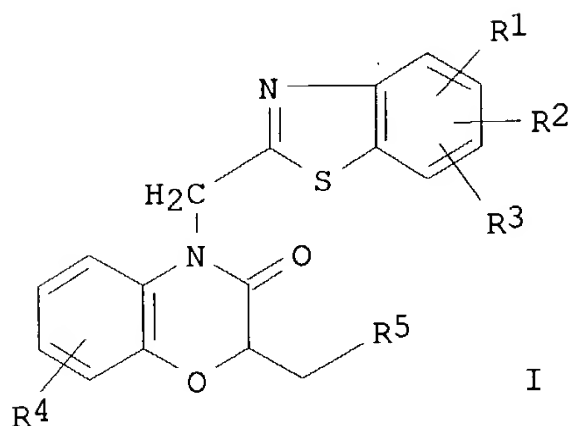
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06172353	A2	19940621	JP 1992-274827	19920921
CA 2180340	AA	19950713	CA 1994-2180340	19940106
PRIORITY APPLN. INFO.:			JP 1992-274827	A 19920921
OTHER SOURCE(S):			CASREACT 121:280655; MARPAT 121:280655	
GI				



AB Title compds. I [R1, R2, R3 = H, alkyl, alkoxy, halo, OH; R4 = H, halo, alkyl, alkoxy; R5 = (esterified) CO2H] are prepared, e.g., via reaction of benzoxazine-2-acetic acids with the appropriate 2-(halomethyl)benzothiazoles. Thus, a mixture of Et 3,4-dihydro-3-oxo-2H-1,4-benzoxazine-2-acetate, 2-(bromomethyl)-5-chlorobenzothiazole, potassium iodide, and K2CO3 in DMSO was stirred at room temperature for 15 h to give I

[R1 = 5-Cl, R2-R4 = H, R5 = CO2H]. In an in vitro study I [R1, R2, R3 = 4-, 5-, 7-fluoro, resp., R4 = H, R5 = CO2H] (also prepared) had an IC50 of 8.6+10-3 M against aldose reductase. I were also evaluated for their inhibiting activity on the accumulation of sorbitol in the tissue of exptl. diabetic rats.

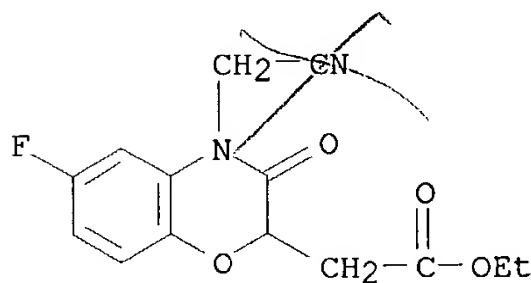
IT **158870-82-7**

RL: RCT (Reactant); RACT (Reactant or reagent)

(intermediate in preparation of 1,4-benzoxazine-2-acetic acids for treatment of diabetes complications)

RN 158870-82-7 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-(cyanomethyl)-6-fluoro-3,4-dihydro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



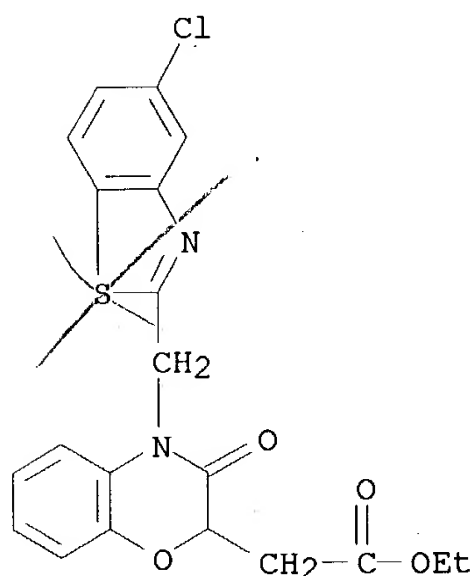
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 158870-78-1P 158870-79-2P 158870-80-5P
 158870-81-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 1,4-benzoxazine-2-acetic acids for treatment of diabetes complications)

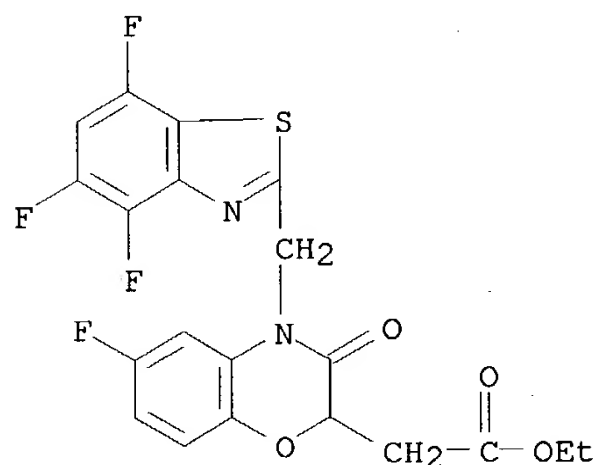
RN 158870-36-1 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(5-chloro-2-benzothiazolyl)methyl]-3,4-dihydro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 158870-37-2 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 6-fluoro-3,4-dihydro-3-oxo-4-[(4,5,7-trifluoro-2-benzothiazolyl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



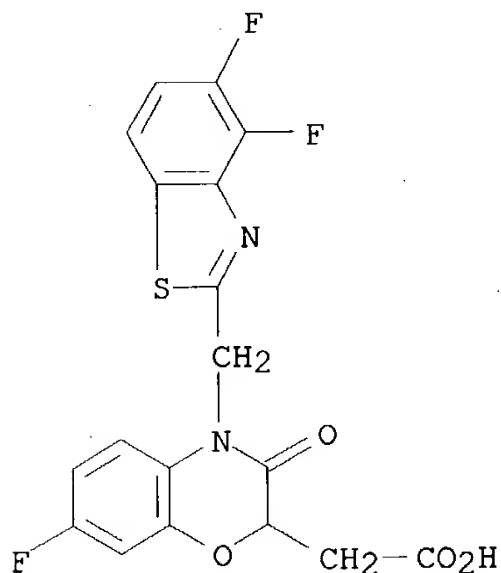
RN 158870-38-3 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(4,5-difluoro-2-benzothiazolyl)methyl]-6-fluoro-3,4-dihydro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)

09/932,732

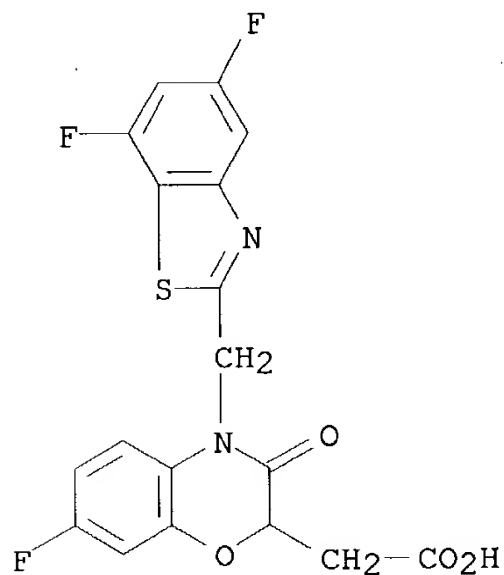
RN 158870-80-5 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(4,5-difluoro-2-benzothiazolyl)methyl]-7-fluoro-3,4-dihydro-3-oxo- (9CI) (CA INDEX NAME)



RN 158870-81-6 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 4-[(5,7-difluoro-2-benzothiazolyl)methyl]-7-fluoro-3,4-dihydro-3-oxo- (9CI) (CA INDEX NAME)



L7 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:84517 CAPLUS

DOCUMENT NUMBER: 106:84517

TITLE: Syntheses of 3,4-dihydro-2H-1,4-benzoxazine-2-acetates and related compounds

AUTHOR(S): Masuoka, Yutaka; Asako, Tsunehiko; Goto, Giichi; Noguchi, Shunsaku

CORPORATE SOURCE: Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, 532, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1986), 34(1), 130-9

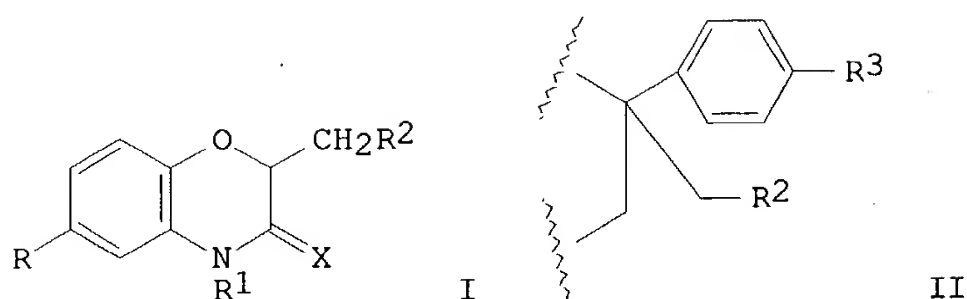
CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:84517

GI



AB Benzoxazines I ($X = H_2$; $R = H, Cl, Me, NO_2$; $R_1 = H, CH_2Ph$; $R_2 = CO_2Me, cyano$) and their Ph analogs II ($R_3 = H, Cl$) were prepared by intramol. Michael reaction of hydroxyanilinobutenoates, -butenonitriles, and their Ph analogs in basic solns. I ($X = O, R_2 = CO_2Et$) and I ($X = H_2, R = H, R_1 = CH_2Ph, R_2 = 4-O_2NC_6H_4$) were prepared similarly by condensation of E-EtO₂CCH:CHCOCl and 4-O₂NC₆H₄CH:CHCH₂Br followed by Michael reaction of the resulting acrylate. I [$R_1 = (CH_2)_nPh$; $R_2 = CH_2NR_4R_5$; $NR_4R_5 = NEt_2, NMeCH_2Ph, 4\text{-methylpiperazino}$; $X = O$; $n = 1, 2$] and I [$X = H_2, R = H, R_1 = H, (CH_2)_nPh, R_2 = CPh_2OH$] were prepared by amidation of the acid or by Grignard reaction. I ($X = H_2, R = H, R_1 = CH_2Ph, R_2 = CO_2Me, CPh_2OH$) showed considerable anxiolytic activity in the conflict test in rats, whereas I [$R = H, R_1 = (CH_2)_nPh, R_2 = CH_2NR_4R_5, NR_4R_5 = NEt_2, NMeCH_2Ph$; $X = O$; $n = 1, 2$] showed potent anticonvulsant activity in mice.

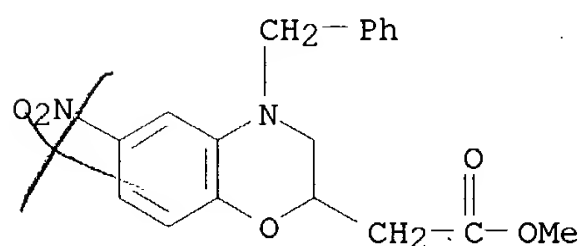
IT **77434-64-1P 77434-77-6P 77434-79-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and biol. activity of)

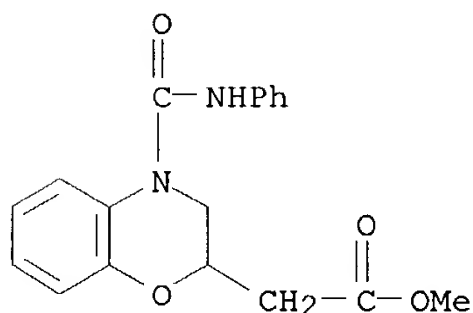
RN 77434-64-1 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-nitro-4-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 77434-77-6 CAPLUS

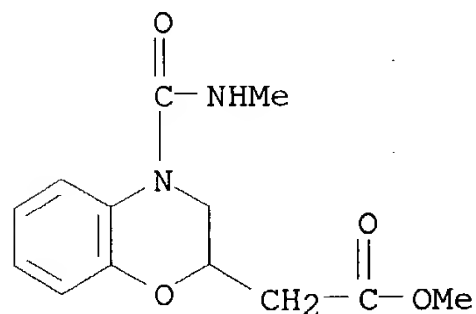
CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-4-[(phenylamino)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



09/932,732

RN 77434-79-8 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-4-[(methylamino)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

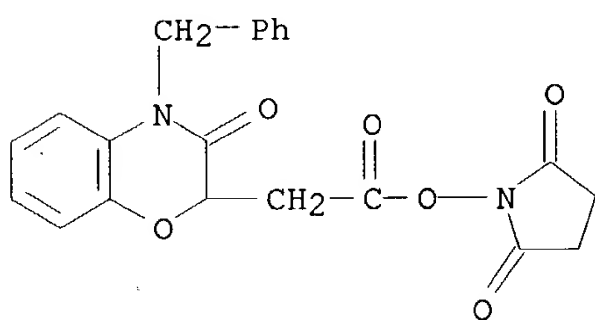


IT 106201-36-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reduction of)

RN 106201-36-9 CAPLUS

CN 2,5-Pyrrolidinedione, 1-[[[3,4-dihydro-3-oxo-4-(phenylmethyl)-2H-1,4-benzoxazin-2-yl]acetyl]oxy]- (9CI) (CA INDEX NAME)



L7 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:572373 CAPLUS

DOCUMENT NUMBER: 105:172373

TITLE: A convenient and one-pot synthesis of methyl α -(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-2-yl)acetates

AUTHOR(S): Shridhar, D. R.; Ram, Bhagat; Rao, K. Srinivasa; Jain, M. L.

CORPORATE SOURCE: Chem. Div., Indian Drugs and Pharm. Ltd., Hyderabad, 500 037, India

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1985), 24B(9), 992-4

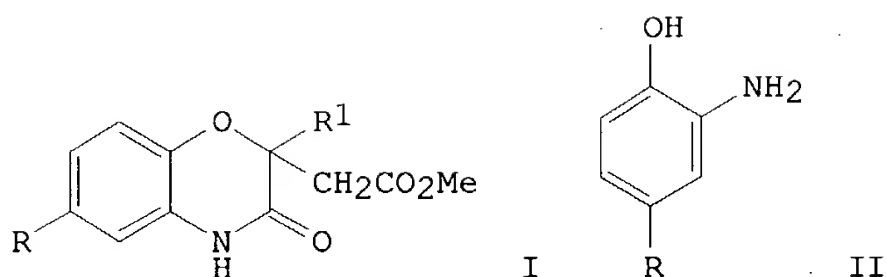
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 105:172373

GI



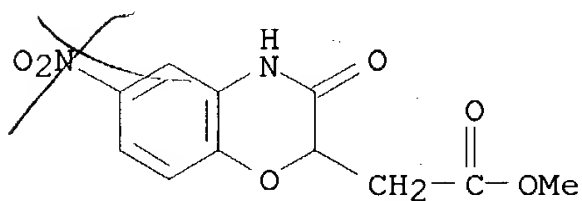
AB A convenient and one-step method for the preparation of Me benzoxazineacetates I (R = H, Cl, Me, NO₂; R₁ = H, Me) was described. The reaction of phenols II with maleic anhydride in the presence of Et₃N yielded I (R₁ = H), while with methylmaleic anhydride, an initial nucleophilic attack at the more hindered carbonyl group took place leading to the formation of I (R₁ = Me) in excellent yields. The antiinflammatory activity of I was also described. I (R = H, R₁ = Me) exhibited 26% inhibition of edema in the rat paw carrageenin test.

IT **104662-86-4P 104662-90-0P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antiinflammatory activity of)

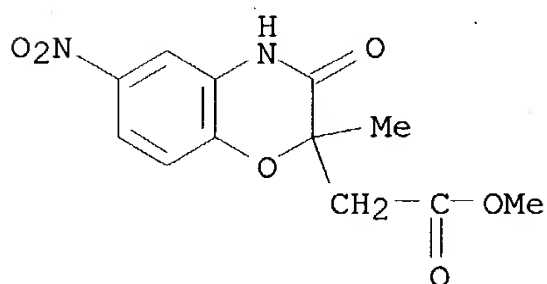
RN 104662-86-4 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-nitro-3-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 104662-90-0 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-2-methyl-6-nitro-3-oxo-, methyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1981:480985 CAPLUS

DOCUMENT NUMBER: 95:80985

TITLE: Benzoxazine derivatives

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

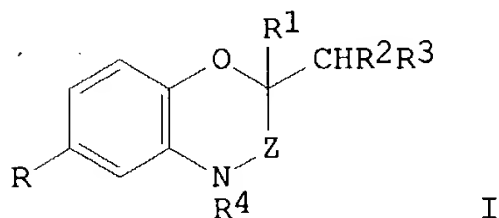
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

09/932,732

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 56002976	A2	19810113	JP 1979-77032	19790618
PRIORITY APPLN. INFO.: GI			JP 1979-77032	19790618



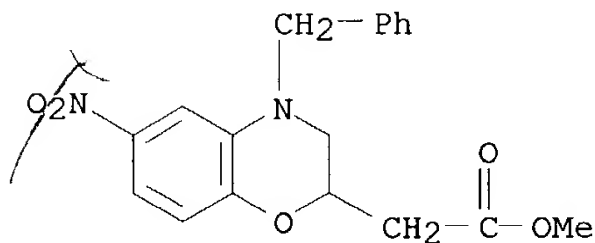
AB Thirty-eight benzoxazine derivs. I (R = H, Me, Cl, NO₂; R₁, R₄ = H, hydrocarbon residues; R₂ = electroneg. groups; R₃ = H, hydrocarbon residues, electroneg. groups; Z = CH₂, CO, CS) were prepared by reaction of 2,4-(HO)RC₆H₃NHR₄ with XZ₁CR₁:CR₂R₃ (Z₁ = CH₂, CO; X = halo), cyclization of the resulting 2,4-(HO)RC₆H₃NR₄Z₁CR₁:CR₂R₃, and optional hydrolysis, reduction, sulfurization, or introduction of hydrocarbon residues. Thus, a mixture of 550 mg 2-HOC₆H₄NH₂, 500 mg NaHCO₃, and BrCH₂CH:CHCO₂Me (amount not given) in MeOH was stirred 1 day at room temperature to give 640 mg 2-HOC₆H₄NHCH₂CH:CHCO₂Me (II). Stirring II with 10 mg K₂CO₃ 20 min to give 540 mg I (R = R₁ = R₃ = R₄ = H, R₂ = CO₂Me, Z = CH₂). I (R = R₁ = R₃ = H, R₂ = CO₂Me, R₄ = PhCH₂, Z = CH₂) showed tranquilizer activity at 20 mg/kg i.p. in mice.

IT 77434-64-1P 77434-77-6P 77434-78-7P
77434-79-8P 77434-86-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 77434-64-1 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-6-nitro-4-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 77434-77-6 CAPLUS

CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-4-[(phenylamino)carbonyl]-, methyl ester (9CI) (CA INDEX NAME)